



## PoA Implementation in Asia and Pacific

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## PoA Implementation in Asia and Pacific

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UNEP Risø Centre

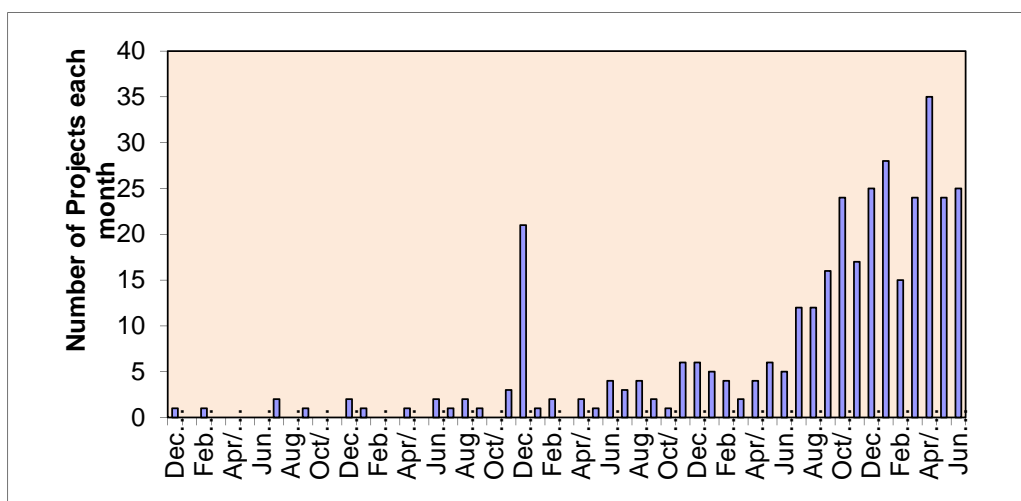


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## PoAs Starting Public Comments each Month

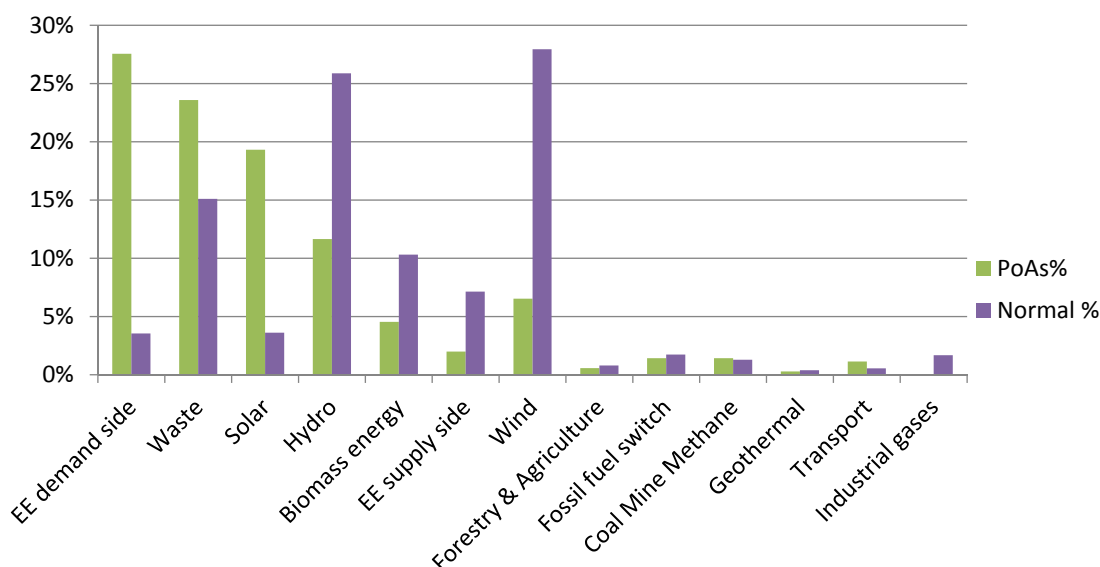
Since the first PoA submitted in December, as of 30 June 2012, 352 PoAs have been submitted to the UNFCCC, of which 20 are registered, 325 are still at validation stage, while 7 have requested registration .



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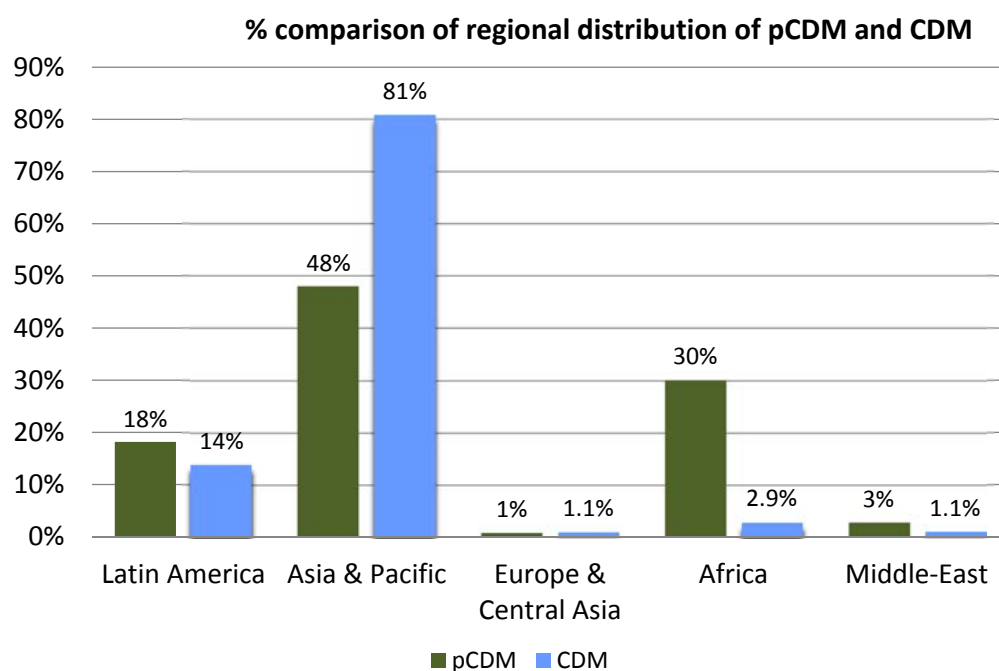
## Sectoral Focus – PoAs vs normal CDM Projects

Number of PoAs compared to normal CDM



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# Regional Distribution – PoAs vs CDM projects



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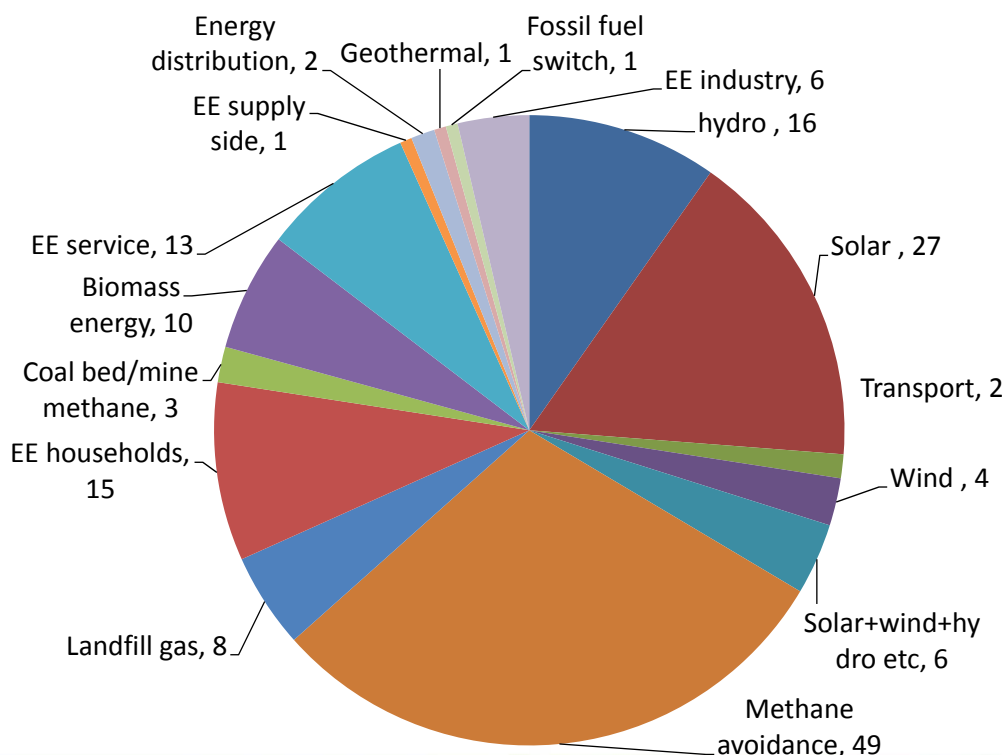
## PoAs in Asia and Pacific countries

Country	Total	Validation	Request registration	Registered
Bangladesh (LDC)	5	3		2
China	47	44	1	2
India	33	30		3
Indonesia	15	13	1	1
Malaysia	9	8		1
Mongolia	1	1		
Nepal (LDC)	3	3		
North Korea	4	4		
Pakistan	2	2		
Papua New Guinea	1	1		
Philippines	10	9	1	
Singapore	4	4		
South Korea	12	11		1
Sri Lanka	2	2		
Thailand	9	9		
Vietnam	12	11	1	
Israel	1	1		
Lebanon	1	1		
Saudi Arabia	4	4		
United Arab Emirates	3	3		
Yemen	1	1		
<b>Total</b>	<b>179</b>	<b>155</b>	<b>4</b>	<b>10</b>



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## 179 PoAs in Asia and Pacific – Sectors and Types



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## Main Contents of the 179 PoAs in Asia and Pacific

- Methane Avoidance(49): mainly anaerobic treatment and biogas collection/composting from manure, domestic waste, agriculture waste (palm oil waste, industrial waste, and waste water).
- Solar(24): mainly solar PV, also a few solar thermal, solar water heating, and solar lamps.
- Household energy efficiency (22): (mainly about lighting, cooking stoves, and electrical appliances)
- Other Renewables (26): hydropower, biomass, wind, combination of several types of renewable energy under a single PoA
- Energy efficiency Service (12) : lighting/street lighting, air conditioning, energy efficiency for public buildings, commercial buildings



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## Boundary and Scale

### Boundary of PoAs in the Pacific:

- Entire host country: a large part of the PoAs cover the whole host country
- Some covers only part of the country (certain province(s)/states, municipalities;
- Some covers a few countries
- There are a few inter-region PoAs, which covers countries from more than one continent (e.g. a international water purification PoA covers almost all countries with DNA, a LED distribution PoA covers 20 SIDS countries in Latin America and Pacific, as well as Malaysia and Indonesia, another LED distribution PoA covers China, India and over a dozen of other developing countries; two Renewable energy programs covering some Middle East and African countries

**Methodology:** The majority of PoAs apply small scale methodologies



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## Coordinating entities and Consultants

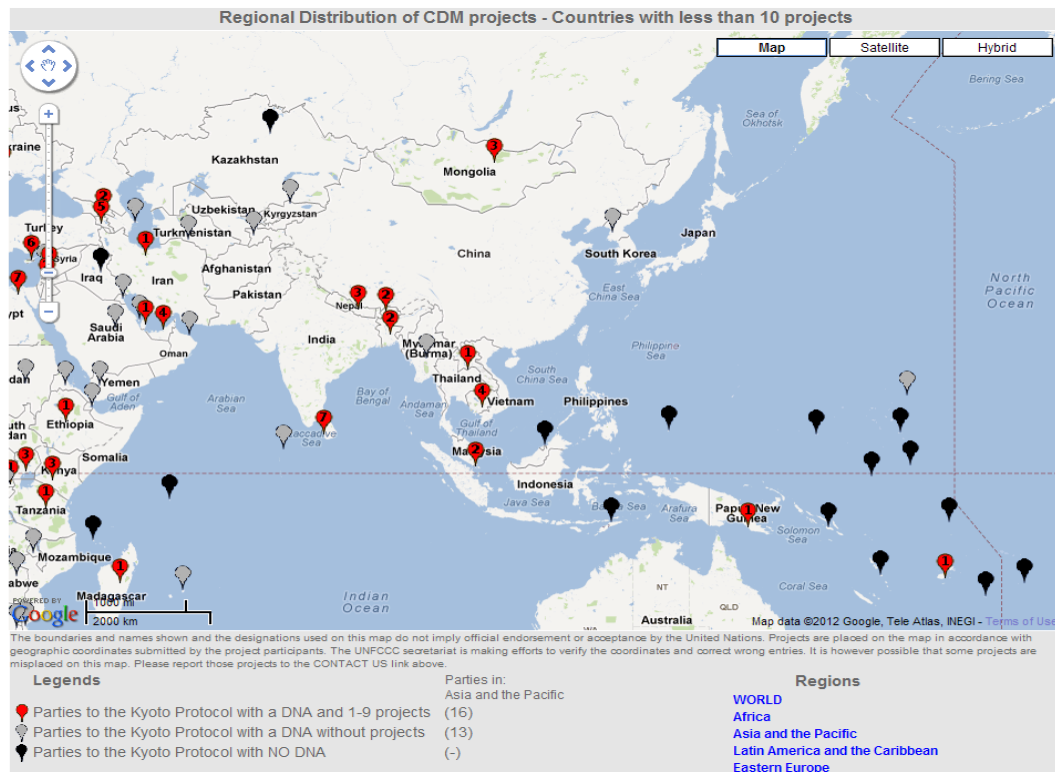
- The coordinating entities are mainly private companies which works on carbon finance or energy sector companies, technology/equipment providers, financial institutions/development banks, as well as government agencies or public sector insitutions
- Many of the PoAs/CPAs have been developed with the support of international/national consultant companies



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# CDM Projects and DNAs in Asia and Pacific

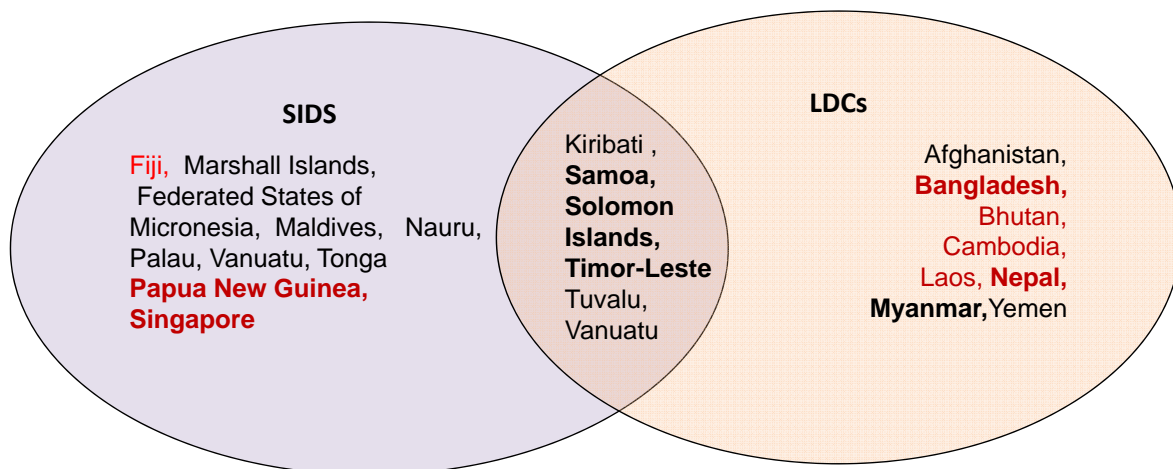


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## PoAs in SIDS and LDCs in Asia and Pacific

Among the 38 SIDS countries, 15 are in the Asia Pacific, so far only 2 of them have PoAs: PNG and Singapore.

There are 14 Least Developed Countries in Asia and Pacific, 6 of them have regular CDM projects, but only Bangladesh and Nepal have PoAs.



Black: No DNA;

Red: With CDM projects, but no PoA;

**Black Bold:** with DNA, but no CDM Projects,

**Red & Bold:** With PoA



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# Potential and Challenges of Implementing PoAs in SIDS

Country profile: small population scattered at small islands, mainly tourist and fishing, per capita low and total energy consumption small, relying on imported fossil fuel for energy.

Potential for PoAs: some potential for renewable energy, especially solar, biofuel, and hydro in some relatively big SIDSs, energy efficiency for lighting, air conditioning, tourist sector

National interested in CDM and market-based mitigation mechanism: high

Barriers:

High transaction costs: Far away from other countries, each country emission reduction small (maybe even capital city only has 1000 street lighting bulbs, few bus lines);

Ship transport is a main source of emissions, but part is international and lacks of methodology;

Regional PoAs could be an option, but many countries still do not have DNAs



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## Various solutions

### **Making use of the various supporting measures already in place:**

- CDM loan scheme for countries with less than 10 projects (most LDCs and SIDS countries meet this criteria)
- Exempting additionality demonstration for microscale projects (up to one-third of the small-scale limit) in SIDS/LDCs
- Projects located in LDCs are exempted from paying registration fee
- EU ETS Phase III (2013-2020) has no market entry limit for CERs from LDCs

### **Additional efforts**

- More efforts on CDM capacity building in LDCs, SIDS and countries with less than 10 projects
- Standardised baseline development and application to reduce transaction costs
- Developing multi-country PoA to reduce the transaction costs for each CER, and increase project/programme activity viability
- Public awareness raising, creating supportive environment for CDM project/PoA implementation in the countries with less than 10 projects



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# Thanks

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## Sources of Information:

UNEP Risø PoA Pipeline, [www.cdmpipeline](http://www.cdmpipeline)

ACP MEA Project [www.ACP-CD4CDM.org](http://www.ACP-CD4CDM.org)



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